

FIG. 1

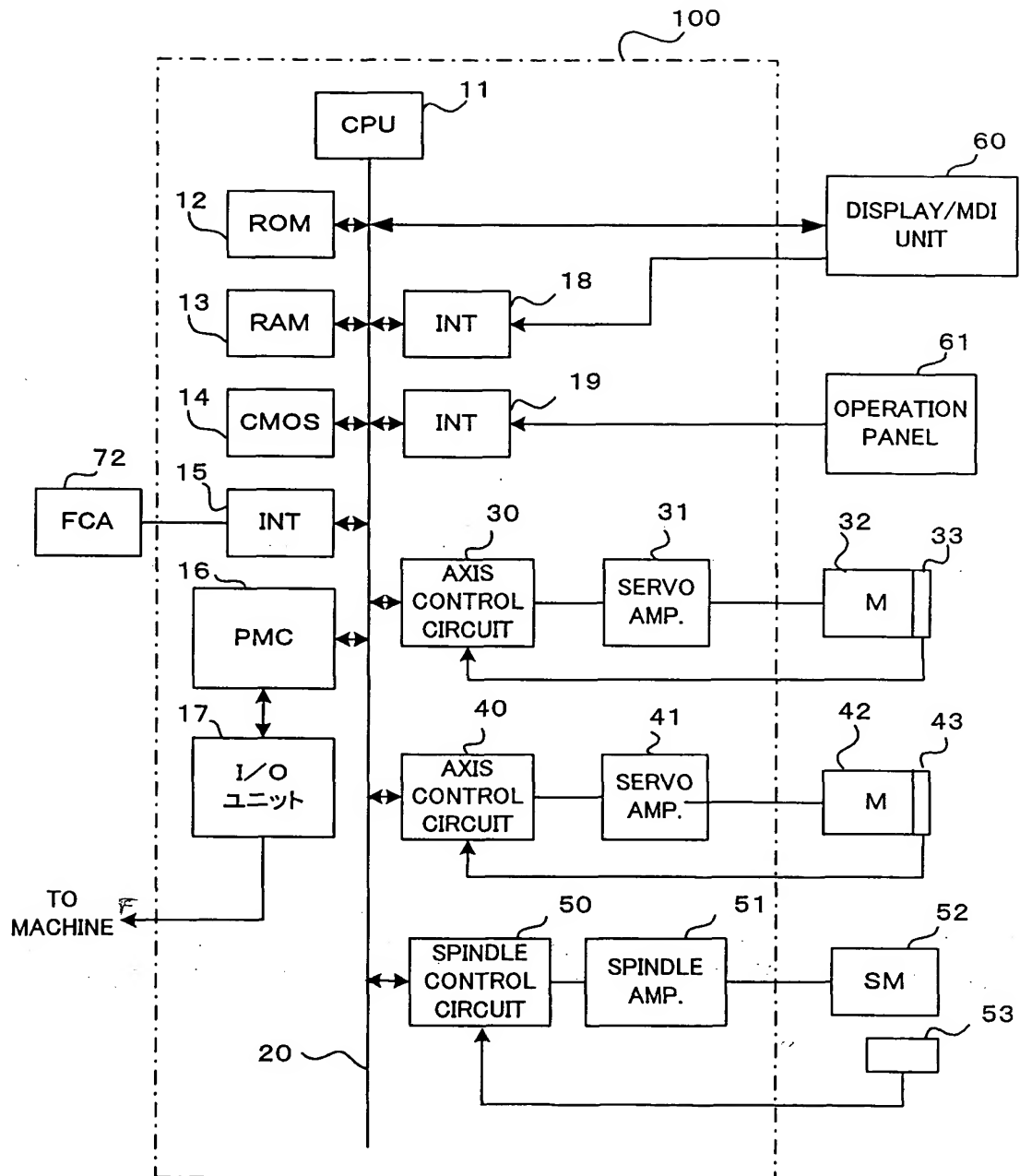


FIG. 2

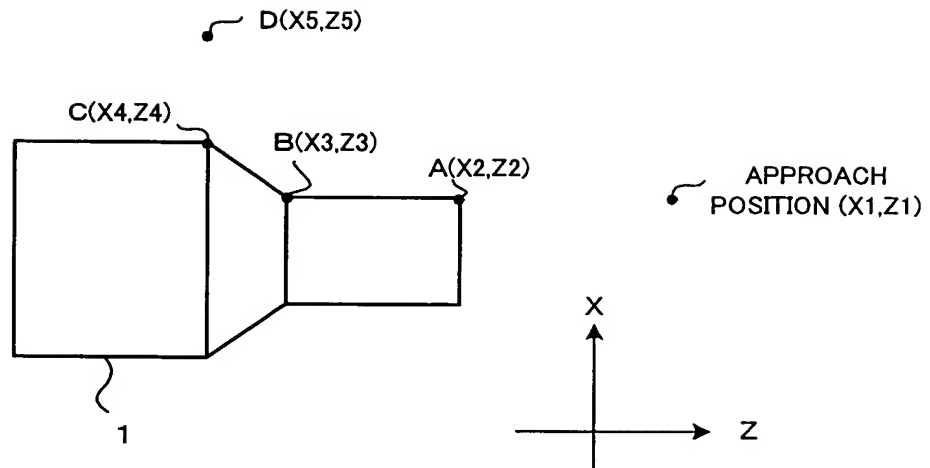


FIG. 3

i	ROTATIONAL POSITION (360 * n + $\alpha$ )	ROTATIONAL VELOCITY $V_i$	POSITION $X_i$ OF TOOL	POSITION $Z_i$ OF TOOL	3	
					X-AXIS VELOCITY $V_x$	Z-AXIS VELOCITY $V_z$
0	$\theta_0$	$V_0$	$X_0$	$Z_0$	$V_{x0}$	$V_{z0}$
1	$\theta_1$	$V_1$	$X_1$	$Z_1$	$V_{x1}$	$V_{z1}$
2	$\theta_2$	$V_2$	$X_2$	$Z_2$	$V_{x2}$	$V_{z2}$
3	$\theta_3$	$V_3$	$X_3$	$Z_3$	$V_{x3}$	$V_{z3}$
4	$\theta_4$	$V_4$	$X_4$	$Z_4$	$V_{x4}$	$V_{z4}$
5	$\theta_5$	—	$X_5$	$Z_5$	—	—

FIG. 4

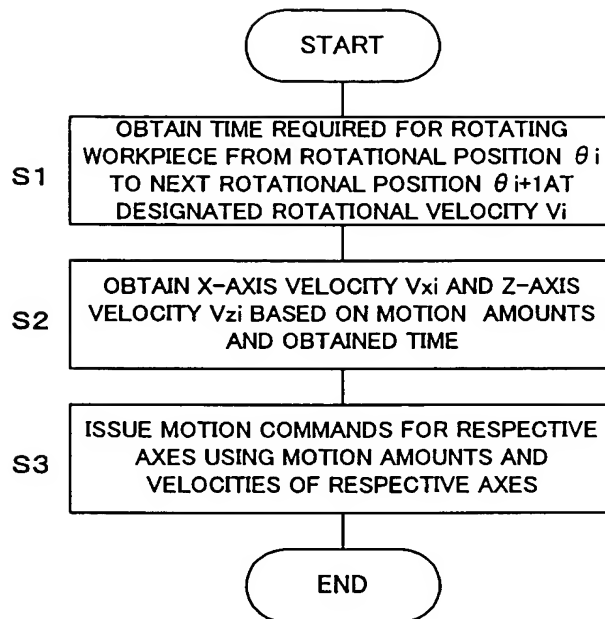


FIG. 5

